

at New York was 30.72 inches on the 10th and 30.68 inches on the 11th, and the remarkably steep gradient resulted in moderate to strong northeasterly gales along the coast from Key West to Hatteras, accompanied by comparatively high barometric readings. A number of press accounts of this storm have been received and the consensus of opinion of different shipmasters and officers was that the conditions were most unusual, as an increasing wind on a rising barometer is not often experienced. Capt. Chester W. Gilbert of the American steamship *Venezuela* was quoted as having stated that he had only seen one other storm of this character in his whole career at sea.

TABLE 1.—Averages, departures, and extremes of atmospheric pressure at sea level, 8 a. m. (seventy-fifth meridian). North Atlantic Ocean October, 1929.

Stations	Average pressure	Departure	Highest	Date	Lowest	Date
	Inches	Inch	Inches		Inches	Inches
Belle Isle, Newfoundland	29.81	1-0.06	30.36	31st.	28.82	29th.
Halifax, Nova Scotia	30.01	2-0.03	30.58	30th.	29.28	17th.
Nantucket	30.03	2-0.05	30.60	10th.	29.36	17th.
Hatteras	30.06	2-0.04	30.52	10th ¹	29.50	2d.
Key West	29.95	2-0.01	30.08	26th.	29.70	21st.
New Orleans	30.04	2-0.02	30.22	24th.	29.72	28th.
Cape Gracias, Nicaragua	29.84	1-0.08	29.92	27th.	29.76	18th.
Turks Island	29.99	2+0.04	30.08	5th ¹	29.90	30th.
Bermuda	30.07	2+0.00	30.30	31st.	29.76	16th.
Horta, Azores	30.27	1+0.14	30.44	10th ¹	29.92	24th.
Lerwick, Shetland Islands	29.47	1-0.32	30.33	31st.	28.72	2d.
Valencia, Ireland	29.86	1-0.05	30.39	31st.	29.20	5th. ¹
London	29.84	1-0.07	30.38	31st.	29.13	6th.

¹ From normals shown on Hydrographic Office Pilot Chart, based on observations at Greenwich mean noon, or 7 a. m. seventy-fifth meridian time.

² From normals based on 8 a. m. observations.

³ And on other date.

Results for Julianehaab, Greenland, are not given, as observations were missing from that station on 7 days.

From the 11th to 14th a depression over the central section of the ocean was responsible for moderate to strong gales during the greater part of that period, and on the 13th and 14th winds of force 7 to 10 were reported from the area between the fortieth and fiftieth parallels and the thirtieth and fiftieth meridians.

On the 15th anticyclonic northerly winds of gale force were encountered by vessels between the thirtieth and thirty-sixth parallels and the thirty-fifth and forty-second meridians, accompanied by barometric readings of from 30.11 to 30.20 inches.

On the 16th and 17th a low was off the American coast between Nantucket and Belle Isle, with moderate to strong gales prevailing on both days.

From the 19th to the 22d the region between the Bermudas and Azores was swept by a severe disturbance, the wind reaching hurricane force at times. Charts X and XI show the conditions on the 21st and 22d, respectively. On the 21st and 22d there was also a disturbance of tropical origin off the American coast between the twenty-fifth and thirty-fifth parallels.

From the 23d to 27th westerly to southwesterly gales were encountered by vessels in the middle and eastern sections of the steamer lanes.

On the 28th one low was central near Cape Ray, Newfoundland, and a second near 58° N., 28° W.; these both developed into severe disturbances as they moved slowly eastward, and on the 29th gales of force 8 to 11 were encountered between Halifax and Belle Isle, west of the forty-fifth meridian, and on the same day winds of force 8 and 9 prevailed between the twentieth meridian and British coast. On the 30th there was an extensive storm area over the middle section of the ocean, while by the 31st moderate weather prevailed generally.

OCEAN GALES AND STORMS, OCTOBER, 1929

Vessel	Voyage		Position at time of lowest barometer		Gale began	Time of lowest barometer	Gale ended	Lowest barometer	Direction of wind when gale began	Direction and force of wind at time of lowest barometer	Direction of wind when gale ended	Highest force of wind and direction	Shifts of wind near time of lowest barometer
	From—	To—	Latitude	Longitude									
NORTH ATLANTIC OCEAN													
Naperian, Br. S. S.	Savannah	Liverpool	32 10 N.	80 05 W.	Oct. 1.	10 a., 1.	Oct. 3.	29.54	SE.	SE., 8.	SW.	—, 8.	SSE-SW.
Balsam, Am. S. S.	New York	Glasgow	55 27 N.	7 45 W.	1.	11 p., 1.	2.	29.08	S.	SW., 7.	W.	S., 10.	S-W.
New York, Am. S. S.	Port Arthur	New York	33 38 N.	76 15 W.	2.	1 a., 2.	3.	29.61	SE.	SSE., 8.	W.	SW., 9.	
Helen, Am. S. S.	San Juan	Philadelphia	36 50 N.	74 17 W.	3.	8 a., 3.	3.	29.61	W.	W., 10.	NW.	W., 10.	NW-W.
New York City, Br. S. S.	Bristol	do.	44 00 N.	63 00 W.	4.	6 a., 4.	4.	29.48	SW.	SW., —	SW.	—, 9.	Steady.
West Hobomac, Am. S. S.	Newcastle	New Orleans	48 51 N.	7 16 W.	5.	5 p., 5.	5.	29.30	WSW	NW., 8.	NW.	NNW., 10.	SW-NW.
Tuscaloosa City, Am. S. S.	Canal Zone	Liverpool	50 16 N.	11 31 W.	5.	4 a., 6.	6.	29.45	NW.	NW., 10.	NW.	NW., 11.	NW-WNW.
Coldwater, Am. S. S.	Savannah	Bremen	49 18 N.	17 15 W.	5.	8 p., 7.	9.	29.22	SE.	W., 9.	NW.	—, 9.	SSW-NNE.
Winnebago, Br. S. S.	Brixham	New York	48 04 N.	42 20 W.	8.	Noon, 9.	9.	29.81	SSW	SW., 9.	W.	SW., 9.	SW-W.
Wm. G. Warden, Am. S. S.	Corpus Christi	do.	26 53 N.	79 43 W.	10.	—, 10.	12.	30.06	NE.	NE., 9.	E.	ENE., 9.	NE-E.
McKeesport, Am. S. S.	Havre	do.	51 03 N.	32 23 W.	10.	5 p., 11.	11.	29.64	SW.	SSW., 8.	SSW.	SW., 9.	SW-SSW.
Tynefield, Br. M. S.	Belfast	Baton Rouge	42 12 N.	47 37 W.	9.	8 p., 12.	14.	29.77	NE.	NNE., 6.	N.	NE., 10.	NNE-NE.
Milwaukee, Ger. M. S.	Cobh	New York	49 10 N.	31 40 W.	14.	8 a., 14.	14.	29.73	NNW.	NNW., 10.	W.	—, 10.	NNW-W.
Excelsior, Am. S. S.	Marseille	Boston	42 38 N.	63 10 W.	16.	7 a., 16.	16.	29.45	SE.	SE., 10.	W.	SE., 10.	SE-W-NW.
Inverglass, Br. S. S.	Las Piedras	Southampton	30 55 N.	46 31 W.	17.	Mdt., 17.	18.	29.74	N.	WSW., —	SSE.	WSW., 9.	
Exton, Am. S. S.	New York	Genoa	39 56 N.	73 55 W.	20.	9 a., 20.	24.	29.98	NE.	NE., 7.	NE.	S., 10.	S-NE.
Liberty Glo, Am. S. S.	Bremen	Jacksonville	48 48 N.	7 30 W.	20.	2 p., 20.	21.	29.49	WNW	NW., —	NW.	N., 9.	WNW-NNW.
Momus, Am. S. S.	New York	New Orleans	31 20 N.	76 50 W.	21.	2 p., 21.	21.	29.67	ESE.	SE., 9.	SE.	SE., 10.	Steady.
Magmeric, Am. S. S.	Antwerp	Charleston	36 00 N.	46 00 W.	21.	7 p., 21.	21.	29.43	SE.	SE., —	W.	—, 11.	
Deer Lodge, Am. S. S.	English Channel	Gulf of Mexico	35 06 N.	43 41 W.	21.	4 p., 21.	21.	29.72	ESE.	SSE., 9.	SSW.	S., 12.	
Steel Seafarer, Am. S. S.	Port Said	New York	36 30 N.	1 40 W.	20.	11 p., 21.	22.	29.55	WSW.	SW., 8.	W.	SW., 9.	SW-W.
San Gil, Br. S. S.	St. John, N. B.	Habana	32 17 N.	75 30 W.	21.	3 a., 22.	22.	29.55	SE.	SE., 10.	W.	SE., 10.	Steady.
Wieldrecht, Du. S. S.	Antwerp	New Orleans	46 13 N.	12 43 W.	25.	11 p., 25.	26.	29.88	NNW	NNW., 10.	NW.	NNW., 10.	
Tuscaloosa City, Am. S. S.	London	Baltimore	48 34 N.	44 07 W.	20.	3 p., 26.	30.	29.37	NNW	S., 10.	N.	WNW., 10.	SSW-S.
West Alseek, Am. S. S.	Avonmouth	New York	50 45 N.	16 05 W.	28.	2 p., 28.	29.	29.62	WSW.	W., 8.	NW.	WNW., 10.	WSW-WNW.
President Roosevelt	United Kingdom	do.	47 45 N.	40 30 W.	29.	6 p., 29.	30.	29.59	SSW.	WSW., 8.	WNW.	WSW., 9.	SSW-WSW.